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TLS805B1LDV50 BOARD



Overview

The

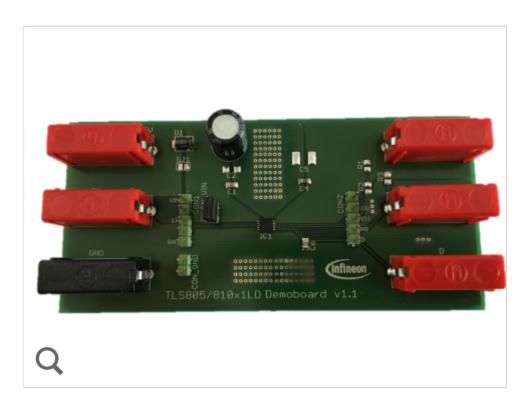
TLS805B1 V50 (/cms/en/product/power/linear-voltage-regulator/linear-voltage-regulator-automotive/TLS805B1LD+V50/productType.html?productType=5546d46253f650570154331d7a6003c0) is a linear voltage regulator featuring wide input voltage range, low dropout voltage and ultra low quiescent current. With an input voltage range of 2.75 V to 42 V and ultra low quiescent of only 5.5 μ A, the regulator is perfectly suitable for automotive or any other supply systems connected permanently to the battery. The TLS805B1LD V50 is the fixed 5 V output version with an accuracy of 2% and output current capability up to 50 mA. The new regulation concept implemented in TLS805B1LD V50 combines fast regulation and very good stability while requiring only a small ceramic capacitor of 1 μ F at the output. The tracking region starts already at input voltages of 2.75 V (extended operating range). This makes the TLS805B1LD V50 also suitable to supply automotive systems that need to operate during cranking conditions. Internal protection features like output current limitation and overtemperature shutdown are implemented to protect the device against immediate damage due to failures like output short circuit to GND, overcurrent and overtemperature. The device can be switched on and off by the Enable feature. When the device is switched off, the current consumption is typically less than 1 μ A.

Summary of Features

- Ultra low quiescent current of 5.5 µA
- Wide input voltage range of 2.75 V to 42 V
- Output current capacity up to 50 mA
- Off mode current less than 1 µA
- Low drop out voltage of typ. 100 mV @ 50 mA
- · Output current limit protection
- Overtemperature shutdown



- Lnable
- HAMANIGHTES/APPG-TSONduots/denseen/product/) > Evaluation Boards (/cms/en/product/evaluation-boards/)
- TLS805B1LDV50 BOARDWide temperature range
- Green Product (RoHS Compliant)
- AEC Qualified



Parametrics

TLS805B1LDV50 BOARD	
Linear Voltage Regulator (LDO)	
DC	
100.0 mA	
5.0 V 4.9 V 5.1 V	
Evaluation board for Low Quiescent Current LDO TLS805/TLS810 in TSON-10	
TLS805B1LDV50 BOARD	
Automotive	
13.5 V 2.75 V 42.0 V	TOP
	Linear Voltage Regulator (LDO) DC 100.0 mA 5.0 V 4.9 V 5.1 V Evaluation board for Low Quiescent Current LDO TLS805/TLS810 in TSON-10 TLS805B1LDV50 BOARD Automotive

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> TLS805B1LDV50 BOARD Topology	Linear
Туре	Demo Board

Documents



+ User Manual



TLS805x1LD & TLS810x1LD Demoboard User Guide (/dgdl/Infineon-Z8F55443029_TLS805x1LD-TLS810x1LD-Demoboard-UserManual-v01_00-EN.pdf? fileId=5546d46259d9a4bf015a46f9d9c8037f)

> EN (/dgdl/Infineon-Z8F55443029_TLS805x1LD-TLS810x1LD-Demoboard-UserManual-v01_00-EN.pdf? fileId=5546d46259d9a4bf015a46f9d9c8037f)

01_00 | 2019-09-03 | pdf | 329 KB

Order

Sales Product Name	TLS805B1LDV50 BOARD
OPN	TLS805B1LDV50B0ARDT0B01
Product Status	active and preferred
Package name	
Order online	
Completely lead free	
Halogen free	
RoHS compliant	no
Packing Size	1
Packing Type	CONTAINER
Moisture Level	
Moisture Packing	NON DRY TOP

> Home (/cms/en/) > Products (/cms/en/product/) > Evaluation Boards (/cms/en/product/evaluation-boards/) \$\text{TLS805B1LDV50 BOARD}

+ Simulation Models



TLS805B1LDV50 PSpice model \bigcirc (/dgdl/Infineon-TLS805B1LDV50-SimulationModels-v01_00-EN.zip?fileId=5546d4626176435901619e05697c5059)

> EN (/dgdl/Infineon-TLS805B1LDV50-SimulationModels-v01_00-EN.zip? fileId=5546d4626176435901619e05697c5059)

01_00 | 2019-05-27 | zip | 4.4 MB

Support

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Q

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Alternative smart driver for use as pump driver

Q: Looking for an alternative smart driver for use as a pump driver in systems. The smart drivers should meet the following requirements:

Overload protection

. . .

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iMOTION - ServoDesigner

ServoDesigner is a PC based software program to configure motor drive applications using the IRMCK201 or the IRMCK203. It communicates thru RS232 to the development systems IRMCS2011/13 and IRMCS2031/33 respectively. Servo Designer is required for initial drive parameters configuration and tune-up. After the initial setup, users can use the standalone mode that does not require ServoDesigner or a PC....

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> Home (/cms/en/) :> Products (/cms/en/product/) > Evaluation Boards (/cms/en/product/evaluation-boards/) > TLS805B1LDV50 BOARD

The applied Viso test is a 100% outgoing test for all our IGBT modules and the test is done according to the IEC standard IEC60747-9. Please see the enclosed information about the final test.

To carry out the test, all the terminals are connected.

The applied Viso voltage tests the isolation capability between the connected terminals and the base plate of the device. This is a pass/fail test

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What are the benefits of Gate Drive Control ICs?

The HVIC gate drive solution typically cuts down on component counts and PCB size by 50 percent compared to discrete solutions.

These devices offer an improved immunity to voltage spikes and contribute to lower switching losses for the IGBTs and FETs....

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Simulation Parameters/SPICE models

Please visit our Simulation Model Finder on the internet at

https://www.infineon.com/simulation (https://www.infineon.com/simulation)

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Technical Support

In order to enable us to process your inquiry as efficiently as possible and ensure your case is duly reported, we kindly ask you to submit your request via the following support form:

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> Home (/cms/en/) > Products (/cms/en/product/) > Evaluation Boards (/cms/en/product/evaluation-boards/)

> TLS805B1LDV50 BOARD

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